

<b>Notice of Allowability</b>	<b>Application No.</b>		<b>Applicant(s)</b>	
	10/086,939		ZORC, SAMO	
	<b>Examiner</b>		<b>Art Unit</b>	
	Qamrun Nahar		2191	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the appeal brief filed on 12/18/2006.
2. ☒ The allowed claim(s) is/are 1, 3, 4, 6-16, 22, 23 and 25-30, renumbered 1-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
|---|---|

Art Unit: 2191

### **DETAILED ACTION**

1. This action is in response to the appeal brief filed on 12/18/2006.
2. The rejection under 35 U.S.C. 103(a) as being unpatentable over Saulpaugh (U.S. 6,792,466) in view of Gupta (U.S. 6,513,059) to claims 1, 3-4, 6-17 and 19-30 is withdrawn in view of applicant's remarks/arguments and Examiner's Amendment (See Examiner's Amendment below).
3. Claims 17, 19, 20, 21 and 24 have been canceled (See Examiner's Amendment below).
4. Claims 22, 25-27 and 29 have been amended (See Examiner's Amendment below).
5. Claims 1, 3, 4, 6-16, 22, 23 and 25-30 are pending.
6. Claims 1, 3, 4, 6-16, 22, 23 and 25-30 are allowed, renumbered 1-22.

### ***Drawings***

7. The drawings were received on 05/09/2002. These drawings are acceptable.

### **EXAMINER'S AMENDMENT**

8. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert W. Nelson (Reg. No. 37,898) on 4/11/07.

Art Unit: 2191

The application has been amended as follows:

**In the Claims:**

Please cancel claims 17, 19, 20, 21 and 24 and  
please amend claims 22, 25-27 and 29 as follows:

17. (Canceled)

19-21. (Canceled)

**Claim 22 (Currently Amended),**

At line 10, after "context sensitive processing" insert ; reading a portion of the schema definition that corresponds to one or an element or an attribute from a schema definition file; constructing a schema object hierarchy based on the read portion, wherein the schema object hierarchy includes a plurality of objects; compiling the schema object hierarchy into a source object hierarchy; and writing the source object hierarchy to one or more object-oriented source files

24. (Canceled)

**Claim 25 (Currently Amended),**

Art Unit: 2191

At line 1, after “claim 24” delete [wherein schema object hierarchy includes a plurality of objects; and]

At line 1, after “claim”, delete [24] and insert 22

**Claim 26 (Currently Amended),**

At line 1, after “claim”, delete [24] and insert 22

**Claim 27 (Currently Amended),**

At line 1, after “claim”, delete [24] and insert 22

**Claim 29 (Currently Amended),**

At line 1, after “claim”, delete [24] and insert 22

- END -

**REASONS FOR ALLOWANCE**

9. The following is an examiner’s statement of reasons for allowance:

The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, said generating a second in memory representation comprising generating a schema object tree by employing a blackboard architecture that includes agents and solutions; wherein the schema object tree includes one or more nodes; and wherein the nodes of the schema object tree are agents and the nodes of an associated source object tree are the

solutions; and generating source files based on the second in-memory representation of the source code as recited in independent claim 1; and further fail to teach generating a second in-memory representation of source code based on the first in-memory representation of the schema definition; ... reading a portion of the schema definition that corresponds to one or an element or an attribute from a schema definition file; constructing a schema object hierarchy based on the read portion, wherein the schema object hierarchy includes a plurality of objects; compiling the schema object hierarchy into a source object hierarchy; and writing the source object hierarchy to one or more object-oriented source files as recited in independent claim 22.

The closest cited prior arts, the combination of Saulpaugh and Gupta teaches a method for automatically generating source code for manipulating at least one mark-up language message based on a mark-up language message definition. However, the combination of Saulpaugh and Gupta fails to teach said generating a second in memory representation comprising generating a schema object tree by employing a blackboard architecture that includes agents and solutions; wherein the schema object tree includes one or more nodes; and wherein the nodes of the schema object tree are agents and the nodes of an associated source object tree are the solutions; and generating source files based on the second in-memory representation of the source code as recited in independent claim 1; and further fail to teach generating a second in-memory representation of source code based on the first in-memory representation of the schema definition; ... reading a portion of the schema definition that corresponds to one or an element or an attribute from a schema definition file; constructing a schema object hierarchy based on the read portion, wherein the schema object hierarchy includes a plurality of objects; compiling the schema object hierarchy into a source object hierarchy; and writing the source

Art Unit: 2191

object hierarchy to one or more object-oriented source files as recited in independent claim 22; and as pointed out by the applicant's remarks/arguments on pg. 6, par. 1 to pg. 8, par. 3.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

10. Any inquiry concerning this communication from the examiner should be directed to Qamrun Nahar whose telephone number is (571) 272-3730. The examiner can normally be reached on Mondays through Fridays from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Y Zhen, can be reached on (571) 272-3708. The fax phone number for the organization where this application or processing is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/086,939

Page 7

Art Unit: 2191

A handwritten signature in black ink, appearing to read "Qamrun Nahar".

Qamrun Nahar  
April 13, 2007

A handwritten signature in black ink, appearing to read "Wei Zhen".

WEI ZHEN  
SUPERVISORY PATENT EXAMINER